

Listing of Claims:

1. (Currently amended) Binder including an aqueous, film forming, polymeric siloxane, wherein during curing, the binder liberates less than 10 % by weight alcohols based on the overall amount of the binder.
2. (Currently amended) Binder according to claim 1, wherein ~~characterized in that the polymeric siloxane has a content of alkoxy groups of less than 10 % by weight, preferably of less than 5 % by weight, particularly preferably of less than 2 % by weight based on the polymeric siloxane.~~
3. (Currently amended) Binder according to claim 1, wherein ~~characterized in that the binder is produced from individual or mixtures of the following group of silanes selected from the group consisting of, comprising alkyl- or alkenyl silanes, methacrylic silanes, and silanes which contain epoxy-, mercaptane- or hydroxyalkyl groups, and combinations thereof.~~
4. (Currently amended) Binder according to claim 1, wherein ~~characterized in that the content of monomers polymers in the binder is less than 10 % by weight, preferably less than 5 % by weight, particularly preferably less than 3 % by weight, advantageously less than 1 % by weight, each based on the overall solids-content of the binder.~~
5. (Currently amended) Binder according to claim 1, wherein during curing ~~characterized in that the binder liberates less than 10 % by weight, preferably less than 5 % by weight, particularly preferably less than 2 % by weight alcohols, each based on the overall amount of the binder.~~

6. (Currently amended) Binder according to claim 1, wherein
~~characterized in that~~ the binder is acid-free.
7. (Currently amended) Binder according to claim 1, further comprising
particles in the ~~characterized in that it is a siloxane filled with particles~~
which act as fillers.
8. (Currently amended) Binder according to claim 7, wherein
~~characterized in that~~ the particles have dimensions of smaller than 100
 μm ; preferably of up to 50 μm ; particularly preferably up to 20 μm ;
advantageously up to 10 μm ; particularly advantageously below 1 μm .
9. (Currently amended) Binder according to claim 8, wherein
~~characterized in that~~ the particles have dimensions below 1 μm ;
particularly advantageously between 5 nm and 100 nm; preferably
between 10 and 55 nm.
10. (Currently amended) Binder according to claim 7, wherein the particles
include ~~characterized in that in the binder~~ inorganic particles; in
particular silicon dioxide, are employed.
11. (Currently amended) Binder according to claim 10, wherein the
particles are ~~characterized in that~~ colloidal silicon dioxide or particulate
silicic acid are employed.
12. (Currently amended) Binder according to claim 7, wherein
~~characterized in that~~ the silicon dioxide has been added to the binder in
the form of hydrogen-, lithium-, potassium or sodium polysilicate or as
a mixture of the aforesaid polysilicates.
13. (Currently amended) Binder according to claim 7, wherein the
~~characterized in that~~ particles are employed which, in aqueous
solution, have an acid pH-value in aqueous solution.

14. (Currently amended) Binder according to claim 7, wherein the particles include characterized in that in the binder organic particles are employed.
15. (Currently amended) Binder according to claim 7, wherein echaracterized in that the monomeric silane is employed in the manufacture of the binder and wherein the monomeric silane and the particles are employed in a molar ratio of between 50 to 1 and up to 1 to 50, preferably of 20 to 1 up to 1 to 20, advantageously of 10 to 1 up to 1 to 10, particularly advantageously of 5 to 1 up to 1 to 5, particularly preferred of 2 to 1 up to 1 to 2.
16. (Currently amended) Binder according to claim 1, wherein the binder exhibits an echaracterized in that the object-temperature for final curing of the binder which is in excess of room temperature, preferably above 40 °C, particularly preferred above 80 °C, advantageously above 150 °C, very advantageously up to 300 °C, particularly advantageously up to 500 °C.
17. (Currently amended) Binder according to claim 1, wherein the binder exhibits a echaracterized in that the time for final curing of the binder amounts to which is between 1 second and 90 minutes, advantageously between 2 minutes and 60 minutes, particularly preferred between 3 minutes and 30 minutes.
18. (Currently amended) Binder according to claim 1, wherein echaracterized in that the polymeric siloxane has a molecular weight of at least 200 g/mol, preferably at least 400 g/mol, particularly preferably at least 800 g/mol, advantageously at least 1000 g/mol
19. (Currently amended) Binder according to at claim 1, wherein echaracterized in that the solids content amounts to between 0.5 % and

50 %, advantageously more than 10 %, more than 25 %, particularly preferred more than 50 %, advantageously more than 70 %.

20. (Currently amended) Binder according to claim 1, wherein characterized in that the pH-value amounts to between 2 and 13; preferably between 3 and 8.
21. (Currently amended) Binder according to claim 1, wherein characterized in that co-binders in an amount of 0.01 % by weight up to 50 % by weight based on the overall formulation of the coating composition have been added; preferably from the group comprising alkyl resins, epoxy resins, acrylic dispersions, phenoxy resins, melamin resins, polyurethane resins and epoxy resins.
22. (Currently amended) Binder according to claim 1, wherein characterized in that the aqueous polymeric siloxane has added thereto an organic solvent in a proportion of up to 20 % by weight; preferably of up to 10 % by weight, each based on the overall formulation of the binder.
23. (Previously presented) Coating composition for the coating of metal surfaces including a binder according to claim 1 and at least one further additive.
24. (Currently amended) Coating composition according to claim 23, wherein characterized in that the coating composition comprises a solids content of 0.5 % to 95 %, preferably of more than 1 %, preferably of more than 20 %, advantageously of more than 50 %.
25. (Currently amended) Coating composition according to claim 1, wherein the binder exhibits an characterized in that the object temperature for final curing of the binder which is above room temperature; preferably above 40 °C, particularly preferably above 80

°C, advantageously above 150 °C, very advantageously up to 300 °C, particularly advantageously up to 500 °C.

26. (Currently amended) Coating composition according to claim 1, wherein the binder exhibits a characterized in that the time for final curing of the binder amounts to which is between 1 second and 90 minutes, advantageously between 2 minutes and 60 minutes, particularly preferably between 3 minutes and 30 minutes.
27. (Currently amended) Coating composition according to claim 23, wherein characterized in that the coating composition, besides the binder, has added thereto at least one additive for adjusting the curing period, the substrate wetting and/or for adjusting the curing temperature and/or for adjusting the viscosity of the metal surface to be coated in an amount each of 0.01 weight % to 25 weight %, ~~preferably of 0.1 weight % up to 10 weight %~~ based on the overall formulation of the coating composition.
28. (Currently amended) Coating composition according to claim 23, wherein characterized in that, as additive, one or more substances have been employed from the group consisting of including water, alcohols, ketones, glycols, polyglycol, polypropylene glycol, glycol ethers, glycol ether esters, dipropylene glycol, methoxypropanol, butyl glycol, Texanol, aromatic and aliphatic hydrocarbons, and that this or these additives are employed in an amount of 0.01 % by weight up to 25 % by weight, ~~preferably of 0.1 % by weight up to 15 % by weight,~~ each based on the overall formulation of the coating composition.
29. (Currently amended) Coating composition according to claim 23, wherein characterized in that, as additive, waxes and/or lubricating agents have been added in an amount of 0.01 % to 40 % based on the overall formulation of the coating composition.

30. (Currently amended) Coating composition according to claim 29, wherein the characterized in that, as waxes, preferably comprise solid or liquid emulsions or dispersions, in particular polyethylene, polypropylene, polytetrafluoro ethylene, polyvinylidene fluoride or carnauba wax or mixtures of different waxes are employed.
31. (Currently amended) Coating composition according claim 23, wherein characterized in that as additive catalysts or at least one additive for improving the rheology, the substrate wetting, the defoaming, the flow properties, the de-aeration, the pigment wetting, the flexibilization or as water capturing agent, have been added singly or in mixture in an amount each of 0.01 % by weight up to 20 % by weight, preferably 2 % by weight up to 8 % by weight, particularly preferably below 2 % by weight, advantageously below 1 % by weight, each based on the overall formulation of the coating composition.
32. (Currently amended) Coating composition according to claim 31, wherein characterized in that, as an additive for water capturing, a monomeric or oligomeric silane or a mixture of monomeric and/or oligomeric silane has been employed in an amount of up to 2.8 % by weight, preferably up to 2 % by weight, particularly preferably up to 1 % by weight based on the overall formulation of the coating composition.
33. (Currently amended) Coating composition according to claim 23, wherein characterized in that, as additive, pigments, pigment paste, dyes and/or fillers are employed in an amount of 0.01 % by weight based on the overall formulation of the coating composition.
34. (Currently amended) Coating composition according to claim 33, wherein characterized in that metal particles, in particular aluminum particles, are employed as pigments.

35. (Currently amended) Coating composition according claim 23, wherein ~~characterized in that~~ the binder has added thereto as additive a corrosion inhibitor and/or a corrosion preventing or retarding pigment or a mixture of such additives in solid or liquid form, ~~in particular an organic corrosion inhibitor, preferably an organic nitro compound, in particular a dinitrosalicylic acid~~ in an amount of 0.01 % by weight up to 30 % by weight based on the overall formulation of the coating agent.
36. (Currently amended) Coating composition according claim 23, wherein boron compounds are added ~~characterized in that~~ to the binder are added as additive boron compounds, in particular from the group of boric acids or boron oxides or molybdenum or phosphorus compounds, each individually or in mixture.
37. (Currently amended) Coating composition according claim 23, wherein ~~characterized in that~~, as an additive, at least one particulate metal for the improvement of the corrosion properties of the metal surface to be coated, is added in an amount of from 10 weight % up to 95 weight %, ~~preferably 20 weight % up to 80 weight %, preferably 20 weight % to 60 weight %, advantageously 20 weight % to 50 weight %, based on the overall formulation of the coating composition.~~
38. (Currently amended) Coating composition according to claim 37, wherein the ~~characterized in that~~, as particulate metal is selected from ~~of the group consisting of~~ containing zinc, aluminium, iron, manganese, and tin, the particulate metals are employed each individually, in a mixture or as alloy of at least two metals of the group of zinc and aluminum, iron, manganese and tin or and mixtures and alloys thereof and chromium-nickel-steel particles.
39. (Currently amended) Coating composition according to claim 37, wherein ~~characterized in that~~ the particulate metal is employed in the form of beads, spherical particles, lamellae or flakes.

40. (Currently amended) Coating composition according to claim 37, ~~wherein characterized in that to the coating composition a solvent is added for the particulate metal is added to the coating composition, in particular an organic solvent, preferably ketones, methoxypropanol, butyl glycol, glycols, polyglycol, polypropylene glycol, glycol ether, glycol esters, glycol ether esters, dipropylene glycol, texanol, aliphatic and aromatic hydrocarbons, as well as alcohols or a mixture of the aforesaid organic solvents in an amount of 0.01 up to 35 weight %, based on the overall formulation of the coating composition.~~
41. (Currently amended) Coating composition for the coating of metal surfaces according to claim 23 ~~including comprising a first component I, including~~
- at least one particulate metal;
 - an organic solvent for the particulate metal; and
 - ~~optionally~~ a corrosion inhibitor for the particulate metal,
- and ~~one~~ a second component II, including
- ~~an the aqueous, film forming, polymeric siloxane according to at least one of claims 1 to 23 as a binder.~~
42. (Currently amended) Coating composition according to claim 41, ~~wherein characterized in that wherein the first component I and/or the second component II has added thereto further additives.~~
43. (Currently amended) Coating composition according to claim ~~41~~ 23, ~~wherein the first and second characterized in that at least two components I and II of the coating composition are stored separately until used.~~
44. (Previously presented) Work piece including a coating formed from a fully cured coating agent according to claim 23.